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Full text available: pdf(613.63 KB)

html(2.78 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**2** [Information retrieval on the web](#)

Mei Kobayashi, Koichi Takeda

June 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 2

Full text available: pdf(213.89 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet user ...

Keywords: Internet, World Wide Web, clustering, indexing, information retrieval, knowledge management, search engine

3 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

4. The state of the art in automating usability evaluation of user interfaces

Melody Y. Ivory, Marti A Hearst

December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4

Full text available:  pdf(2.31 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Usability evaluation is an increasingly important part of the user interface design process. However, usability evaluation can be expensive in terms of time and human resources, and automation is therefore a promising way to augment existing approaches. This article presents an extensive survey of usability evaluation methods, organized according to a new taxonomy that emphasizes the role of automation. The survey analyzes existing techniques, identifies which aspects of usability evaluation aut ...

Keywords: Graphical user interfaces, taxonomy, usability evaluation automation, web interfaces

5. Difficulties in simulating the internet

Sally Ford, Vern Paxson

August 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 4

Full text available:  pdf(111.73 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


Simulating how the global Internet behaves is an immensely challenging undertaking because of the network's great heterogeneity and rapid change. The heterogeneity ranges from the individual links that carry the network's traffic, to the protocols that interoperate over the links, the "mix" of different applications used at a site, and the levels of congestion seen on different links. We discuss two key strategies for developing meaningful simulations in the face of these difficulties: searching ...

Keywords: Internet, modeling, simulation

6. Video: An empirical study of realvideo performance across the internet

Yubing Wang, Mark Claypool, Zheng Zuo

November 2001 **Proceedings of the First ACM SIGCOMM Workshop on Internet Measurement**

Full text available:  pdf(4.30 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The tremendous increase in computer power and bandwidth connectivity has fueled the growth of streaming video over the Internet to the desktop. While there have been large scale empirical studies of Internet, Web and multimedia traffic, the performance of popular Internet streaming video technologies and the impact of streaming video on the Internet is still largely unknown. This paper presents analysis from a wide-scale empirical study of RealVideo traffic from several Internet servers to many g ...

7. Using SoDIS™ as a risk analysis process: a teaching perspective

Don Gotterbarn, Tony Clear

January 2004 **Proceedings of the sixth conference on Australian computing education - Volume 30**

Full text available:  pdf(617.90 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

There are several difficulties we face when showing our students key processes and techniques for software development. In this paper, issues related to teaching students how to manage risks in software projects are profiled. The concepts and process for implementing Software Development Impact Statements (SoDIS) are outlined; with its

supporting CASE tool the "SoDIS Project Auditor" being described. Different ways of applying the SoDIS process and the CASE tool are demonstrated, through some br ...

8 SIGSAM BULLETIN: Computer algebra in the life sciences

Michael P. Barnett

December 2002 **ACM SIGSAM Bulletin**, Volume 36 Issue 4

Full text available:  [pdf\(240.15 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This note (1) provides references to recent work that applies computer algebra (CA) to the life sciences, (2) cites literature that explains the biological background of each application, (3) states the mathematical methods that are used, (4) mentions the benefits of CA, and (5) suggests some topics for future work.

9 A survey of Web metrics

Devanshu Dhyani, Wee Keong Ng, Sourav S. Bhowmick

December 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 4

Full text available:  [pdf\(289.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


The unabated growth and increasing significance of the World Wide Web has resulted in a flurry of research activity to improve its capacity for serving information more effectively. But at the heart of these efforts lie implicit assumptions about "quality" and "usefulness" of Web resources and services. This observation points towards measurements and models that quantify various attributes of web sites. The science of measuring all aspects of information, especially its storage and retrieval or ...

Keywords: Information theoretic, PageRank, Web graph, Web metrics, Web page similarity, quality metrics

10 Mining multimedia data

Osmar R. Zaiane, Jiawei Han, Ze-Nian Li, Jean Hou

November 1998 **Proceedings of the 1998 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  [pdf\(377.84 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Data Mining is a young but flourishing field. Many algorithms and applications exist to mine different types of data and extract different types of knowledge. Mining multimedia data is, however, at an experimental stage. We have implemented a prototype for mining high-level multimedia information and knowledge from large multimedia databases. MultiMedia Miner has been designed based on our years of experience in the research and development of a relational data mining system, DBMiner, in the Inte ...

Keywords: data cube, data mining, data warehousing, image analysis, information retrieval, multimedia, world-wide web

11 Computing and using reputations for internet ratings

Mao Chen, Jaswinder Pal Singh

October 2001 **Proceedings of the 3rd ACM conference on Electronic Commerce**

Full text available:  [pdf\(303.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Ratings for products and services are increasingly important on the Internet, as they allow users to harvest the wisdom of the community in making decisions. However, the difficulty with ratings is that little is known about the people providing them. Interpreting ratings well requires that the reputations of raters be factored into the scores computed for rated

objects, even though these reputations are not explicitly available. Taking advantage of the insight that reputation can be computed im ...

Keywords: rated object, rater, rating, reputation hierarchy, score

12 Usability analysis with Markov models

Harold Thimbleby, Paul Cairns, Matt Jones

June 2001 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 8 Issue 2

Full text available:  pdf(289.08 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

How hard to users to find interactive devices to use to achieve their goals, and how can we get this information early enough to influence design? We show that Markov modeling can obtain suitable measures, and we provide formulas that can be used for a large class of systems. We analyze and consider alternative designs for various real examples. We introduce a "knowledge/usability graph," which shows the impact of even a smaller amount of knowledge for the user, and the extent ...

Keywords: Markov models, usability analysis

13 Improving mobile internet usability

George Buchanan, Sarah Farrant, Matt Jones, Harold Thimbleby, Gary Marsden, Michael Pazzani

April 2001 **Proceedings of the tenth international conference on World Wide Web**

Full text available:  pdf(297.71 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: HCI, WAP, mobile internet, usability

14 Digital libraries in the classroom: Understanding educator perceptions of "quality" in digital libraries

Tamara Sumner, Michael Khoo, Mimi Recker, Mary Marlino

May 2003 **Proceedings of the third ACM/IEEE-CS joint conference on Digital libraries**

Full text available:  pdf(388.46 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The purpose of the study was to identify educators' expectations and requirements for the design of educational digital collections for classroom use. A series of five focus groups was conducted with practicing teachers, pre-service teachers, and science librarians, drawn from different educational contexts (i.e., K-5, 6--12, College). Participants' expect that the added value of educational digital collections is the provision of: (1) 'high quality' teaching and learning resources, and (2) addi ...

15 Timescales and stability: Evidence for long-tailed distributions in the internet

Allen B. Downey

November 2001 **Proceedings of the First ACM SIGCOMM Workshop on Internet Measurement**

Full text available:  pdf(1.91 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We review evidence that Internet traffic is characterized by long-tailed distributions of interarrival times, transfer times, burst sizes, and burst lengths. We propose a new statistical technique for identifying long-tailed distributions, and apply it to a variety of

datasets collected on the Internet. We find that there is little evidence that interarrival times and transfer times are long-tailed, but that there is some evidence for long-tailed burst sizes. We speculate on the causes of long-t ...

16 Reusable software components

Trudy Levine

July 1996 **ACM SIGAda Ada Letters**, Volume XVI Issue 4

Full text available:  [pdf\(2.45 MB\)](#) Additional Information: [full citation](#), [index terms](#)



17 Placing search in context: the concept revisited

January 2002 **ACM Transactions on Information Systems (TOIS)**, Volume 20 Issue 1

Full text available:  [pdf\(926.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Keyword-based search engines are in widespread use today as a popular means for Web-based information retrieval. Although such systems seem deceptively simple, a considerable amount of skill is required in order to satisfy non-trivial information needs. This paper presents a new conceptual paradigm for performing search in context, that largely automates the search process, providing even non-professional users with highly relevant results. This paradigm is implemented in practice in the Intelli ...

Keywords: Search, context, invisible web, semantic processing, statistical natural language processing



18 ScentTrails: Integrating browsing and searching on the Web

Christopher Olston, Ed H. Chi

September 2003 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 10 Issue 3

Full text available:  [pdf\(654.98 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

The two predominant paradigms for finding information on the Web are browsing and keyword searching. While they exhibit complementary advantages, neither paradigm alone is adequate for complex information goals that lend themselves partially to browsing and partially to searching. To integrate browsing and searching smoothly into a single interface, we introduce a novel approach called ScentTrails. Based on the concept of information scent developed in the context of information foraging theory, ...

Keywords: ScentTrails, World Wide Web, browsing, information scent, searching



19 Designing for web site usability

Cynthia M. Calongne

March 2001 **The Journal of Computing in Small Colleges**, Volume 16 Issue 3

Full text available:  [pdf\(71.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Web site design is popular and prolific, meeting the communication needs of a large user community. Many of these sites are poorly designed. This paper contends that it is not enough for educators to train designers in the mechanics of HTML, tool usage, and modern web site design techniques. Effective web page design needs to put usability first, before tool mastery. Designing usable web pages requires an understanding of the site's audience, category, content, usability goals, and how to mea ...

Keywords: evaluation-centered design, mental models, usability design, usability




evaluations, usability goals, user interface design, user profiles, user-centered design, web page design

20 Scheduling optimization for resource-intensive Web requests on server clusters

Huican Zhu, Ben Smith, Tao Yang

June 1999 **Proceedings of the eleventh annual ACM symposium on Parallel algorithms and architectures**

Full text available:  [pdf\(1.19 MB\)](#)

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Robert L. Ashenurst

 November 1979 **Communications of the ACM**, Volume 22 Issue 11

Full text available: pdf(1.24 MB)

 Additional Information: [full citation](#), [references](#), [citations](#)


2 [Quo Vadimus: computer science in a decade](#)

J. F. Traub

 June 1981 **Communications of the ACM**, Volume 24 Issue 6

Full text available: pdf(2.35 MB)

 Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)


A panel discussion was held during the third biennial meeting of chairmen of Ph.D.-granting computer science departments in June, 1978 at Snowbird, Utah, a meeting sponsored by the Computer Science Board. Invitees from industry and government were also present. A report was prepared from tapes made of the discussion (Department of Computer Science, Carnegie-Mellon University: Report #CMU-CS-80-127, June 1980). It contained all the prepared statements of the panelists, lightly edited, and th ...

3 [Assurance in life/nation critical endeavors: Biometrics or ... biohazards?](#)

John Michael Williams

 September 2002 **Proceedings of the 2002 workshop on New security paradigms**

Full text available: pdf(1.17 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


IPSE DIXIT Biometrics as an array of deployable technologies presumes an elaborate infrastructure, including underlying science that justifies its claims of detection, classification, identification and authentication of individual human identities; particularly of those who are runaways, illegal immigrants, fugitives, criminals, terrorists, and so on. This will now too often be literally a matter of life and death, both for the public and the individuals identified. The "New Security Paradigm" em ...

4 [Put your best face forward: anthropomorphic agents, e-commerce consumers, and the law](#)

Carey E. Heckman, Jacob O. Wobbrock

 June 2000 **Proceedings of the fourth international conference on Autonomous agents**

Full text available: pdf(897.54 KB)

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5 Designing the PDA of the future

Aaron Marcus, Eugene Chen

January 2002 **interactions**, Volume 9 Issue 1

Full text available:  pdf(694.37 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
 html(39.80 KB)

In this article, Aaron Marcus and Associates (AM+A) describes a project with Samsung Electronics to design user-interface concepts for the future of wireless devices. AM+A conducted extensive research, including contextual observation, then designed a suite of product ideas that Samsung could incorporate into specific products over the next few years. Samsung also acquired knowledge about the user-interface development process. AM+A sought to design usable as well as useful mobile devices that c ...

6 A problem-list of issues concerning computers and public policy

September 1974 **Communications of the ACM**, Volume 17 Issue 9

Full text available:  pdf(557.29 KB) Additional Information: [full citation](#), [citations](#), [index terms](#)

7 Form and Content in Computer Science (1970 ACM turing lecture)

Marvin Minsky


April 1970 **Journal of the ACM (JACM)**, Volume 17 Issue 2

Full text available:  pdf(1.34 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 Relief from the audio interface blues: expanding the spectrum of menu, list, and form styles

Paul Resnick, Robert A. Virzi

June 1995 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 2 Issue 2

Full text available:  pdf(2.13 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


Menus, lists, and forms are the workhorse dialogue structures in telephone-based interactive voice response applications. Despite diversity in applications, there is a surprising homogeneity in the menu, list, and form styles commonly employed. There are, however, many alternatives, and no single style fits every prospective application and user population. A design space for each dialogue structure organizes the alternatives and provides a framework for analyzing their benefits and drawbacks ...

Keywords: ADSI, PDA, forms, interactive voice response, menus, skip and scan, voice mail

9 Conscience in computing: a Law Day perspective on computer crime

Jay BloomBecker

July 1983 **ACM SIGCAS Computers and Society**, Volume 13 Issue 3

Full text available:  pdf(562.54 KB) Additional Information: [full citation](#)

10 Some Comments from a Numerical Analyst

J. H. Wilkinson

April 1971 **Journal of the ACM (JACM)**, Volume 18 Issue 2

Full text available:  pdf(843.25 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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